



TECHNICAL DATA SHEET

Product Name: L-Valine

Synonyms: L-2-Amino-3-methylbutanoic acid

Appearance: White crystals or crystalline powder

Molecular formula: C₅H₁₁NO₂

CAS number: 72-18-4

HS CODE:2922491990

TYPICAL SPECIFICATIONS

Description		White crystals or crystalline powder
Assay (dry basis)	%	98.5-101.5
Specific optical rotation[α] _D ^{20°}		+26.6°~+28.8°
Loss on drying	≤%	0.30
Residue on ignition	≤%	0.1
Chloride (Cl ⁻)	≤%	0.05
Sulfate (SO ₄ ²⁻)	≤%	0.03
Iron(Fe)	≤%	0.003
pH value		5.0-7.0
Heavy metals(Pb)	≤%	0.0015
Individual impurities	≤	0.5
Total impurities	≤	2.0

APPLICATIONS

Used in human nutrition as an essential amino acid supplement

Widely used in animal feed to enhance growth performance

Employed in pharmaceutical and healthcare industries

Useful in fermentation and cell culture processes

PACKAGING

25kg cardboard drum
25kg kraft bag
25kg Woven bag
1000kg jumbo bags
Custom packaging available upon request

STORAGE & HANDLING

Storage: Usually stored in a cool, dry place, away from direct sunlight, in airtight containers.

Handling precautions: Follow general chemical handling practices. Avoid inhalation or contact with eyes and skin.

Shelf life: 2 years under proper storage

SAFETY & TRANSPORT

Classification: Non-hazardous

Toxicity: Generally recognized as safe. Overuse may cause gastrointestinal discomfort.

Transport: Not classified as dangerous goods
SDS and COA available upon request

